

CAPITAL IMPROVEMENTS PROGRAM FY 2006

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|-----------------------|---|------------------------------|-----|
| PROJECT TITLE: | Second Street Force Main | PROJECT NUMBER: | 705 |
| LOCATION: | From 2 nd Street Pumping Station to Bembe Beach Road in the vicinity of Awald Road | Committed/Spent as of | \$0 |
| DEPARTMENT: | Public Works | 04/01/05 | |
| DIVISION: | Wastewater | | |

DESCRIPTION:

Replacement of the 71-year-old sewage force main running under Back Creek from the 2nd Street Pumping Station to its discharge point into the gravity sewer on Bembe Beach Road.

JUSTIFICATION:

Should failure occur, this replacement is critical in order to prevent a possible environmental incident in which 4,500,000 gallons of raw sewage could be discharged into the Chesapeake Bay each day if the old pipe line were to fail.

STATUS:

A design study has been completed, with the determination that there is no immediate need for replacement. Concept plans are complete and on file in the event of an emergency.

| APPROPRIATION SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|------------------------|-------------|---------------|-------|-----------|-------|-------|-------|-----------|
| Land \$ | | | | | | | | 0 |
| Design | | | | 75,000 | | | | 75,000 |
| Construction | | | | 900,000 | | | | 900,000 |
| Inspection | | | | 90,000 | | | | 90,000 |
| Equipment | | | | | | | | 0 |
| Other | | | | 200,000 | | | | 200,000 |
| Total \$ | 0 | 0 | 0 | 1,265,000 | 0 | 0 | 0 | 1,265,000 |

| FUNDING SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|------------------|-------------|---------------|-------|-----------|-------|-------|-------|-----------|
| Bond Funds \$ | | | | 1,265,000 | | | | 1,265,000 |
| Operating Funds | | | | | | | | 0 |
| Non City Funds | | | | | | | | 0 |
| Total \$ | 0 | 0 | 0 | 1,265,000 | 0 | 0 | 0 | 1,265,000 |

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Some savings in the annual electrical expenses for the 2nd Street Pumping Station will occur due to the reduced pumping head of the new pipe.

CAPITAL IMPROVEMENTS PROGRAM FY 2006

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|-----------------------|--|------------------------------|----------|
| PROJECT TITLE: | Pump Station Replacements | PROJECT NUMBER: | 706 |
| LOCATION: | Whiten Court, Bywater Road, and Annapolis Roads Pumping Stations | Committed/Spent as of | \$52,690 |
| DEPARTMENT: | Public Works | 04/01/05 | |
| DIVISION: | Wastewater | | |

DESCRIPTION:

Total replacement of existing sewage pumping stations with new concrete wet wells and submersible pumps, controlled by variable speed drives.

JUSTIFICATION:

All three stations are pre-fabricate "Tin Can" pumping stations that consist of an underground steel shell containing the pumps and controls to pump the wastewater collected from the neighborhood to the wastewater treatment plant on Edgewood Road. These stations are in excess of 30 years old and the steel containment vessel is at the end of it's design life.

STATUS:

Annapolis Roads pumping station is scheduled for construction in the Spring of 2005. Bywater pumping station scheduled for Fall 2005 with Whiton Court to follow.

| APPROPRIATION SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|---------------------------|----------------|------------------|---------|-------|-------|-------|-------|-----------|
| Land \$ | | | | | | | | 0 |
| Design | 70,000 | | 36,000 | | | | | 106,000 |
| Construction | 700,000 | | 360,000 | | | | | 1,060,000 |
| Inspection | 40,000 | | 20,000 | | | | | 60,000 |
| Equipment | | | | | | | | 0 |
| Other | 84,000 | | 42,000 | | | | | 126,000 |
| Total \$ | 894,000 | 0 | 458,000 | 0 | 0 | 0 | 0 | 1,352,000 |

| FUNDING SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|---------------------|----------------|------------------|---------|-------|-------|-------|-------|-----------|
| Bond Funds \$ | | | | | | | | 0 |
| Operating Funds | 894,000 | | 458,000 | | | | | 1,352,000 |
| Non City Funds | | | | | | | | 0 |
| Total \$ | 894,000 | 0 | 458,000 | 0 | 0 | 0 | 0 | 1,352,000 |

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Small reduction in operating and maintenance cost associated with more modern and efficient equipment.

CAPITAL IMPROVEMENTS PROGRAM FY 2006

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|-----------------------|--|------------------------------|-----|
| PROJECT TITLE: | Wastewater Pump Replacement Program | PROJECT NUMBER: | 719 |
| LOCATION: | Truxtun, Monterey, Porter, Bristol and Admiral Drive pumping stations. | Committed/Spent as of | \$0 |
| DEPARTMENT: | Public Works | 04/01/05 | |
| DIVISION: | Wastewater | | |

DESCRIPTION:

Replacement of sewage pumps with new pumps utilizing variable speed controls.

JUSTIFICATION:

The named pumping station pumps are in need of repair and / or replacement. New pumps with variable speed drives result in longer pump life, reduced energy consumption and more constant flow in down stream pipes.

STATUS:

| APPROPRIATION SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|---------------------------|----------------|------------------|----------|----------|----------|----------|----------|----------------|
| Land | | | | | | | | 0 |
| Design | | 30,000 | | | | | | 30,000 |
| Construction | | 250,000 | | | | | | 250,000 |
| Inspection | | 25,000 | | | | | | 25,000 |
| Equipment | | | | | | | | 0 |
| Other | | 50,000 | | | | | | 50,000 |
| Total | \$ 0 | 355,000 | 0 | 0 | 0 | 0 | 0 | 355,000 |

| FUNDING SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|---------------------|----------------|------------------|----------|----------|----------|----------|----------|----------------|
| Bond Funds \$ | | | | | | | | 0 |
| Operating Funds | | 355,000 | | | | | | 355,000 |
| Non City Funds | | | | | | | | 0 |
| Total | \$ 0 | 355,000 | 0 | 0 | 0 | 0 | 0 | 355,000 |

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Reduced energy consumption.

CAPITAL IMPROVEMENTS PROGRAM FY 2006

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|-----------------------|--------------------------------------|------------------------------|-----|
| PROJECT TITLE: | Second Street Sewage Pumping Station | PROJECT NUMBER: | 720 |
| LOCATION: | Second Street at Back Creek | Committed/Spent as of | \$0 |
| | | 04/01/05 | |
| DEPARTMENT: | Public Works | | |
| DIVISION: | Wastewater | | |

DESCRIPTION:

Replace existing out dated and un-safe motor control center (MCC) at this ca.. 1934 facility.

JUSTIFICATION:

The existing equipment is out dated, replacement parts are difficult to secure and the equipment does not meet current national electrical code standards.

STATUS:

| APPROPRIATION SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|-----------------------------------|------------------------|--------------------------|---------------|---------------|--------------|--------------|--------------|---------------|
| Land | | | | | | | | 0 |
| Design | | 10,000 | | | | | | 10,000 |
| Construction | | | 60,000 | | | | | 60,000 |
| Inspection | | | 5,000 | | | | | 5,000 |
| Equipment | | | | | | | | 0 |
| Other | | | 15,000 | | | | | 15,000 |
| Total | \$ | 0 | 10,000 | 80,000 | 0 | 0 | 0 | 90,000 |

| FUNDING SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|-----------------------------|------------------------|--------------------------|---------------|---------------|--------------|--------------|--------------|---------------|
| Bond Funds | \$ | | | | | | | 0 |
| Operating Funds | | 10,000 | 80,000 | | | | | 90,000 |
| Non City Funds | | | | | | | | 0 |
| Total | \$ | 0 | 10,000 | 80,000 | 0 | 0 | 0 | 90,000 |

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET:

CAPITAL IMPROVEMENTS PROGRAM FY 2006

| | | | |
|-----------------------|----------------------|------------------------------|----------|
| PROJECT TITLE: | Sewer Rehabilitation | PROJECT NUMBER: | 998 |
| LOCATION: | City Wide | Committed/Spent as of | \$74,250 |
| DEPARTMENT: | Public Works | 04/01/05 | |
| DIVISION: | Wastewater | | |

DESCRIPTION:

A major section of the City's sewer system was constructed in the 1930's and the larger pipe lines were constructed of concrete pipe. Over the past sixty-plus years, the concrete pipe has been deteriorated by the sewer gases and we recently had a 33" sewer line collapse. Due to location and development over and around these sewer lines, slip lining of the existing sewer is the most cost effective repair.

JUSTIFICATION:

TV inspection of approximately 9,000 feet of the suspect concrete pipe has shown varying degrees of pipe failure.

STATUS:

| APPROPRIATION SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|-----------------------------------|------------------------|--------------------------|------------------|------------------|--------------|--------------|--------------|------------------|
| Land \$ | | | | | | | | 0 |
| Design | 50,000 | | 80,000 | 30,000 | | | | 160,000 |
| Construction | 354,040 | | 3,550,000 | 876,930 | | | | 4,780,970 |
| Inspection | | | 50,000 | 50,000 | | | | 100,000 |
| Equipment | | | | | | | | 0 |
| Other | | | 225,000 | 78,070 | | | | 303,070 |
| Total \$ | 404,040 | 0 | 3,905,000 | 1,035,000 | 0 | 0 | 0 | 5,344,040 |

| FUNDING SCHEDULE | PRIOR YEARS | CURRENT FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | TOTAL |
|-----------------------------|------------------------|--------------------------|------------------|------------------|--------------|--------------|--------------|------------------|
| Bond Funds \$ | | | 3,905,000 | 1,035,000 | | | | 4,940,000 |
| Operating Funds | 404,040 | | | | | | | 404,040 |
| Non City Funds | | | | | | | | 0 |
| Total \$ | 404,040 | 0 | 3,905,000 | 1,035,000 | 0 | 0 | 0 | 5,344,040 |

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: When completed, a reduction of inflow and infiltration should be noted and reflect in a reduction of flow at the WWTP.